

**CLAIMS**

1. (Previously Presented) An apparatus for reproducing image data formed by imaging an object, comprising:
  - a reader circuit for reading out image data, first color space information represented by a plurality of coefficients converting the image data in a color space set when imaging the object, and color temperature information optimum for the first color space information;
  - a first color space corrector for correcting the image data based on the first color space information;
  - a color temperature adjuster for correcting the image data corrected by said first color space corrector based on the color temperature information optimum for the first color space information; and
  - a second color space corrector for correcting the image data adjusted by said color temperature adjuster based on second color space information represented by a plurality of coefficients converting the image data to a color space set in said apparatus,wherein the reader circuit reads out the image data in a form of raw pixel data.
2. (Original) The apparatus in accordance with claim 1, wherein the first color space information includes a standard prescription for a color space proposed by a manufacturer, and the second color space information defines a color space desired by a user of said apparatus.
3. (Original) A solid-state imaging apparatus comprising:
  - an image pickup device including an array of photosensitive cells for transducing incident light from an object field into an electrical image signal;
  - said apparatus having a raw data mode for recording the image signal in a form of digitized, raw image data;
  - an adjustment decision circuit for adjusting color temperature in the image data, based on the image data, determining whether or not adjustment of the color temperature is optimum, and outputting gain adjustment information reflecting the color temperature resultant from determination;
  - a recording adjuster for adjusting the raw image data as well as color space

information including a plurality of coefficients for converting the raw image data to a color space used in imaging the object field and the gain adjustment information to a predetermined recording form; and

a system controller for controlling said adjustment decision circuit and said recording adjuster.

4. (Original) The apparatus in accordance with claim 3, further comprising:

a color space corrector for correcting the image data in accordance with the color space information of the color space used in imaging the object field; and

a gain adjuster for correcting the image data corrected by said color space corrector based on the gain adjustment information output from said adjustment decision circuit.

5. (Original) A solid-state imaging system wherein incident light from an object field is transduced by an image pickup device including an array of photosensitive cells into an electrical image signal, and in a raw data mode the image signal is recorded in a form of digitized, raw image data, said system comprising:

an adjustment decision circuit for adjusting color temperature in the image data, based on the image data, determining whether or not adjustment of the color temperature is optimum, and outputting gain adjustment information reflecting the color temperature resultant from determination;

a writer/reader for adjusting the raw image data as well as first color space information including a plurality of coefficients for converting the raw image data to a color space used in imaging the object field and the gain adjustment information to a predetermined recording form, and for recording and reproducing the raw image data, the first color space information and the gain adjustment information;

a first color space corrector for correcting the image data based on the first color space information;

a color temperature adjuster for adjusting the image data corrected by said first color space corrector based on the gain adjustment information;

a second color space corrector for correcting the image data adjusted by said color temperature adjuster based on second color space information represented by a plurality of coefficients converting the image data to a color space set in said system; and

a system controller for controlling said adjustment decision circuit, said writer/reader, said color temperature adjuster and said first and second color space correctors.

6. (Original) The system in accordance with claim 5, wherein the first color space information includes a standard prescription for a color space proposed by a manufacturer for imaging the object field, and the second color space information defines a color space desired by a user of said system.

7. (Original) The system in accordance with claim 5, wherein said first color space corrector uses a linear corrector for correcting the image data in accordance with the first color space information used in imaging the object field;  
said color temperature adjuster using a gain adjuster for correcting the image data corrected by said first color space corrector based on the gain adjustment information output from said adjustment decision circuit.

8. (Original) The system in accordance with claim 6, wherein said first color space corrector uses a linear corrector for correcting the image data in accordance with the first color space information used in imaging the object field;  
said color temperature adjuster using a gain adjuster for correcting the image data corrected by said first color space corrector based on the gain adjustment information output from said adjustment decision circuit.

9. (Cancelled.)

10. (Previously Presented) The apparatus in accordance with claim 1, wherein the reader circuit reads out the image data from a digital processor of a digital camera recorder.

11. (Previously Presented) The apparatus in accordance with claim 10, wherein the recorder records the color temperature information and said first color space information.

12. (Previously Presented) The apparatus in accordance with claim 1, wherein the color

temperature information comprises white balance information.

13. (Previously Presented) The apparatus in accordance with claim 1, wherein the second color space information is set by a user.

14. (Previously Presented) The apparatus in accordance with claim 1, wherein the second color space information and the color temperature information are recorded in a storage in accordance with a recording format of the image data.

15. (Previously Presented) The apparatus in accordance with claim 1, further comprising an adjustment decision circuit for adjusting color temperature in the image data, based on the image data, determines whether adjustment of the color temperature is optimum.

16. (Previously Presented) The apparatus in accordance with claim 1, further comprising:

- a gain adjuster; and

- a recording adjustment circuit,

- wherein said color temperature adjuster uses the gain adjuster for correcting the image data corrected by the first color space corrector based on gain adjustment information output from the recording adjustment circuit.

17. (Previously Presented) A digital processor for recording adjustment and reproducing image data formed by imaging an object, comprising:

- a recording adjustment circuit for adjusting color temperature in the image data, based on the image data, determining whether adjustment of the color temperature is optimum;

- a reproduction adjustment circuit for converting the image data to a desired color space based on:

- a first color space information;

- the color temperature information optimum for the first color space information;

- a second color space information, in order;

a recording/reproduction selector switch to select either recording or reproduction in a usual mode; and

a common processor for commonly processing the image data from the recording adjustment circuit and the reproduction circuit.

18. (Previously Presented) The digital processor in accordance with claim 17, wherein a switching control signal is generated in response to a command signal supplied to a system controller, which determines selection of a user by the recording/reproduction selector switch.

19. (Previously Presented) The digital processor in accordance with claim 17, wherein the first color space information includes a standard prescription for a color space proposed by a manufacturer, and the second color space information defines a color space desired by a user of said processor.

20. (Previously Presented) The digital processor in accordance with claim 17, wherein the reproduction adjustment circuit outputs the image data, converted to a desired color space, to the common processor through said selector switch, and

wherein the common processor converts the image data to luminance and color difference signals.